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PATENT

IN THE CLAIMS

1. (currently amended) An ice maker comprising:  
  
a mold comprising at least one cavity for containing water therein for freezing into ice;  
  
a water supply comprising at least one valve for controlling water flow into said mold;  
  
an ice removal heating element operationally coupled to said mold; and  
  
an ice maker control system operationally coupled to said valve and said ice removal heating element and configured:  
  
control said valve;  
  
control said ice removal heating element; and  
  
provide a signal to a separate refrigerator control system.
2. (original) An ice maker in accordance with Claim 1 wherein said ice maker control system further configured to transmit to the refrigerator control system a signal that said valve is in an open state letting water flow into said at least one mold cavity.
3. (original) An ice maker in accordance with Claim 1 wherein said ice maker control system further configured to transmit to the refrigerator control system a signal that said valve was in an open state letting water flow into said at least one mold cavity.
4. (original) An ice maker in accordance with Claim 1 wherein said ice maker control system further configured to transmit to the refrigerator control system a signal that said ice removal heating element is energized.

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5. (currently amended) A refrigerator comprising:

a fresh food compartment;

a freezer compartment separated from said fresh food compartment by a mullion;

an ice maker positioned within said freezer cavity; and

a refrigerator control system configured to control a temperature of said freezer compartment and said fresh food compartment, said refrigerator control system configured to receive a signal from ~~an~~ a separate ice maker control system.

6. (original) A refrigerator in accordance with Claim 5 wherein said refrigerator control system configured to control the temperature of said freezer compartment based on the received signal.

7. (original) A refrigerator in accordance with Claim 5 further comprising a fan positioned to move air in said freezer compartment, said refrigerator control system configured to control said fan based on the received signal.

8. (previously presented) A refrigerator in accordance with Claim 5 further comprising a fan positioned to move air in said freezer compartment, said refrigerator control system configured to control said fan based on a signal representative of a user selected mode including a speed ice mode and a normal ice mode such that:

when the signal is representative of speed ice mode:

said fan is energized during cooling cycles, and

said fan is energized selectively during non-cooling cycles in conjunction with predetermined ice make modes; and

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when the signal is representative is normal ice mode:

said fan is energized during cooling cycles, and

said fan is de-energized during non cooling cycles.